



MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Gamma USA, Inc.  
5600 N. W. 37<sup>th</sup> Avenue  
Miami, FL 33142

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "82" Aluminum Sliding Glass Door (OXXO) w/ Reinforcements-S. M. Impact

**APPROVAL DOCUMENT:** Drawing No. T-82, titled "Test #82 ALDORA", sheets 1 through 9 of 9, dated 04/14/2006 and last revised on 06/10/14, prepared by Structural Design Inc., signed and sealed by Farrokh Rasekhi, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Small Missile Impact Resistant

**Limitations:**

1. The SGD installation into concrete using 5/16" Elco Tapcon or 3/8" Hilti Kwik Bolt-3 with embedment, OC and edge distance specified in this approval drawing set.
2. Glazing gasket item #8 of Bill of Material is TREMCO EPDM part #TR-13701E.
3. The fixed panel of the SGD to be secured per note A in the sheet 1 of the Dwgs.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, L'ange Gardien (Quebec), Canada and series and following statement: "Miami-Dade County Product Control Approved".

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 07-0208.02 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



NOA No. 13-0724.06  
Expiration Date: October 16, 2018  
Approval Date: July 03, 2014  
Page 1

&  
6/27/14

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (submitted under file #07-0208.02)
2. Drawing No. T-82, titled "Test #82 ALDORA", sheets 1 through 9 of 9, dated 04/14/2006 and last revised on 06/10/14, prepared by Structural Design Inc., signed & sealed by Farrokh Rasekhi, P.E.

**B. TESTS (submitted under file #07-0208.02)**

1. Test reports on
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
  - 5) Small Missile impact Test per FBC, TAS 201-94
  - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of Sliding Glass Doors (OXXO), prepared by Fenestration Testing Laboratory Inc., Test Report No. FTL-4960(FTL-06076), dated 07/06/06, signed & sealed by Edmundo Lagaespada, P. E.

**C. CALCULATIONS (submitted under file #07-0208.02)**

1. Anchor verification calculations, dated 01/24/07 and revised on 08/29/2008, prepared by Structural design Inc., signed and sealed by Farrokh Rasekhi, P.E.
2. Glazing complies with ASTM E-1300-02 &-04.

**D. QUALITY ASSURANCE BY:**

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. 12-1231.09, issued to Eastman Chemical Company (MA) former Solutia, Inc., for their "Saflex clear & color glass interlayer", expiring on 05/21/16.
2. EPDM technical data of TREMCO (part #TR-1370E) physical properties per ASTM C-864, supplied by Gamma, USA.

**F. STATEMENTS**

1. Statement letters of conformance to FBC 2010 and "No financial interest", dated June 02, 2014 and June 04, 2014 respectively, both signed and sealed by Farrokh Rasekhi, P.E.
2. Statement letters of conformance and "No financial interest", both dated Jan 27, 2007, signed and sealed by Farrokh Rasekhi, P.E. (submitted under file #07-0208.02).
3. Statement letter dated June 13, 2014, issued by Gamma, USA requesting for renewal with "no change", signed by Robert Lardizabal, P.E.
4. Statement of compliance, issued as part of the above referenced test report by Fenestration Testing Laboratory Inc.
5. Distribution agreement dated 06/25/14 between Gamma USA, Inc. and Gamma, Canada, signed by Jidong Qin, Vice Chairman, Gamma, USA and Hai Wang, Chairman Gamma, Canada, respectively.

**G. OTHER**

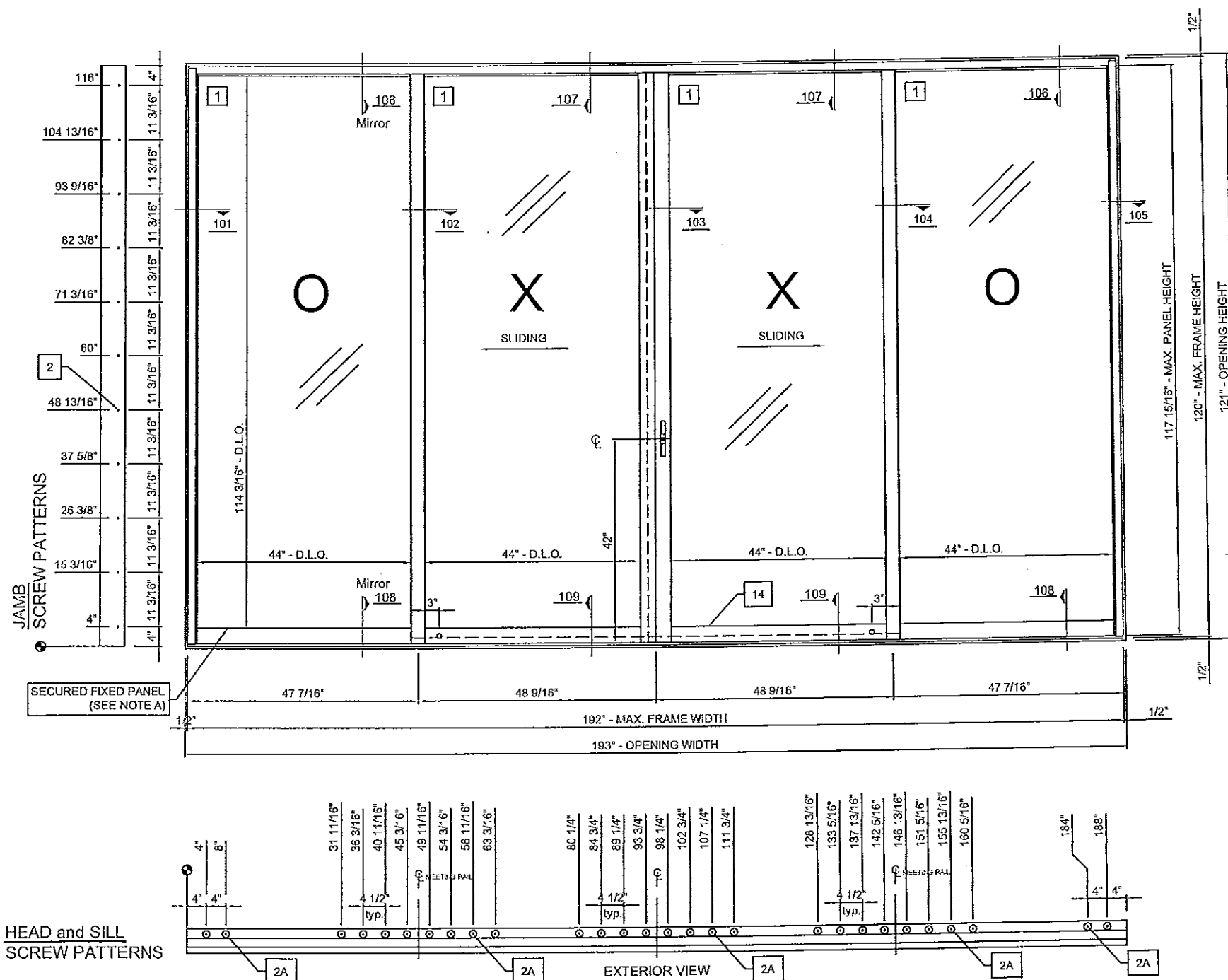
1. This NOA revises & renews NOA # 07-0208.02, expired on OCT 16, 2013.

  
Ishaq I. Chanda, P.E.

Product Control Examiner  
NOA No. 13-0724.06

Expiration Date: October 16, 2018

Approval Date: July 03, 2014



#### NOTE A:

#### FIXED PANELS RETAINER:

FIXED PANELS "O" ARE SITTING IN THE ALUMINUM SILL RACE ITEM # 10 PART # 4339 REF. AT DETAIL 108, AT HEAD DETAIL 106 PANELS ARE INSERTED IN CHANNEL FRAME RACE ITEM # 11 PART # 4140, THIS PREVENTS THE IN AND OUT MOVEMENT OF THE FIXED PANELS.

THAN THESE PANELS ARE BLOCKED AT SILL DETAIL # 109 WITH ITEM 13 PART # 4142 CONTINUOUS THRESHOLD FILLING TRACK IN-BETWEEN THE FIXED PANELS, AND AT HEAD THE CONTINUOUS SNAP-ON CAP ITEM # 15 PART# 4158 IN-BETWEEN THE FIXED PANELS, THIS PREVENTS THE LEFT AND RIGHT MOVEMENTS.

#### GENERAL NOTES

- GLASS TYPE: 9/16" LAMINATED GLASS
- 1/4" CLEAR TEMPERED GLASS
- 0.060" PVB (SOLUTIA)
- 1/4" CLEAR TEMPERED GLASS
- MAXIMUM GLASS DIMENSION 45 1/2" X 115 11/16"
- ALL ALUMINUM IS 6063 T6
- GLAZING PENETRATION: 3/4"

-1/2" MAX. SHIM SPACE LOAD BEARING SHIM  
(TO BE SECURE PROPELY AND REVISED BY BUILDING OFFICIAL)

- CONCRETE APPLICATION (3000 PSI)
- FRAME CORNERS & MEETING RAIL SEAM SEALED WITH CLEAR SEALANT
- REFER TO BILL OF MATERIEL FOR COMPLETE DESCRIPTION

-MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FBC CODE SECTIONS 2003.8.4 AND 2326.

#### SHUTTER REQUIREMENTS:

- 1- INSTALLATION OF THIS UNIT ABOVE 30 FT ABOVE GRADE WILL NOT REQUIRE SHUTTERS
- 2- MIAMI DADE COUNTY APPROVED SHUTTERS WILL BE REQUIRED FOR INSTALLATION OF THIS UNIT BELOW 30 FT ABOVE THE GRADE

#### SEALANT:

G.E. - SILPRUF SCS 2000 or TREMCO - SPECTREM 2

DESIGN PRESSURE RATING  
+ 140 PSF, - 160 PSF

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 13-0724-06  
Expiration Date OCT 16, 2018  
By: [Signature]  
Miami Dade Product Control

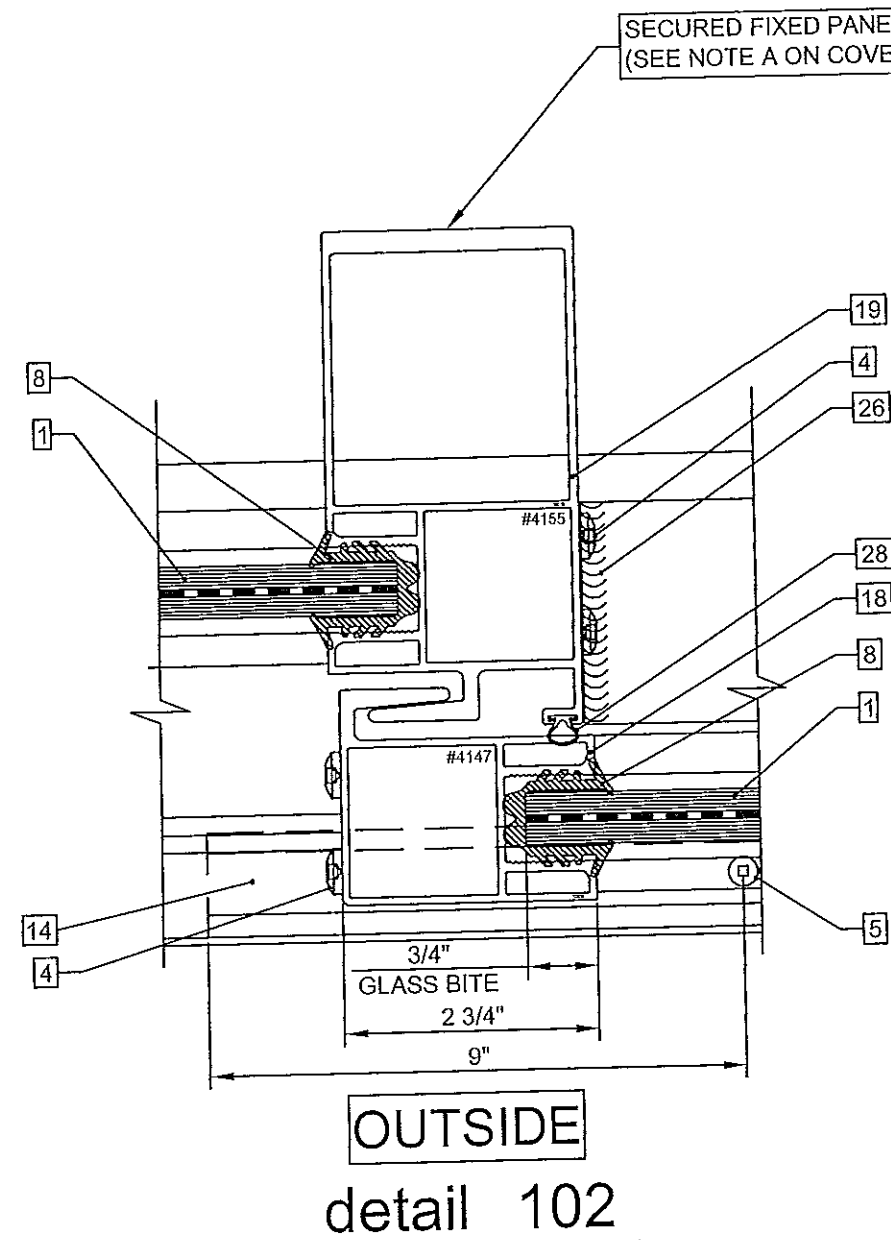
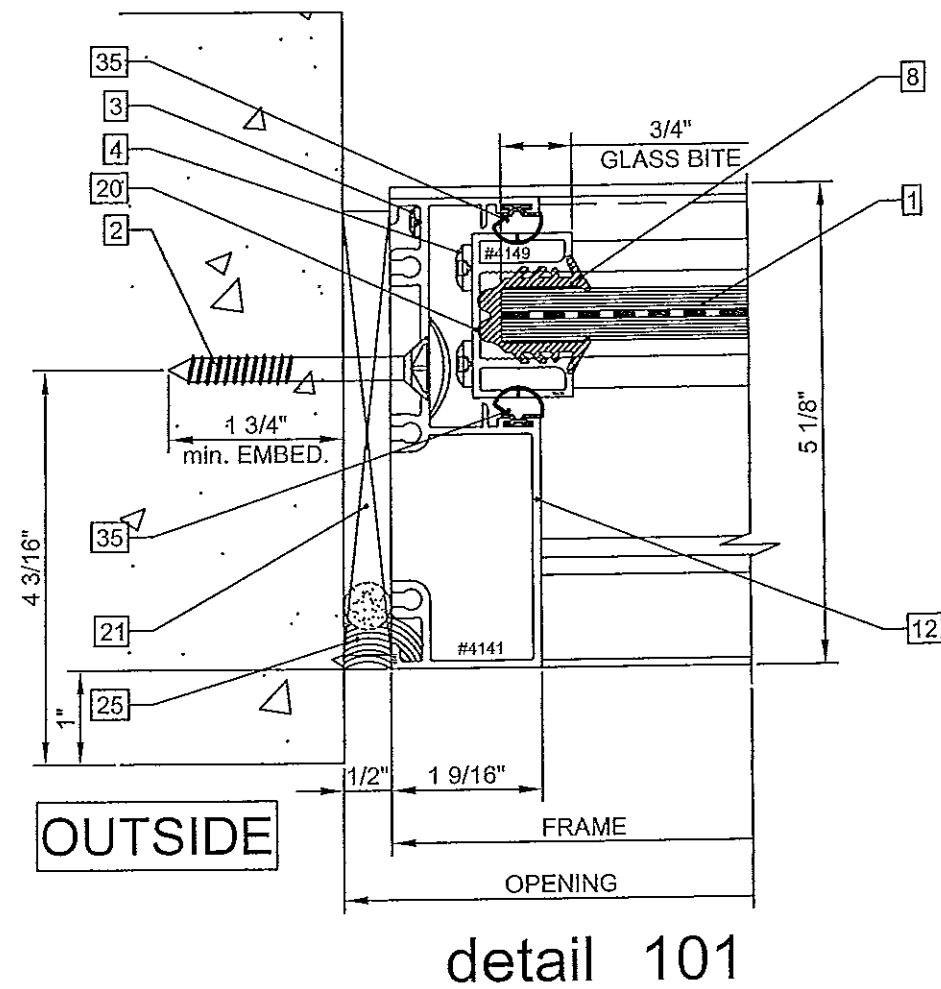
REVISIONS:	BY:
R1 05/05/2006	D.L.
R2 05/05/2006	D.L.
R3 05/09/2006	D.L.
R4 05/25/2006	D.L.
R5 08/29/2008	M.P.
R6 09/18/2008	M.P.
R7 05/21/2014	M.A.

STRUCTURAL DESIGN INC.  
CONSULTING STRUCTURAL ENGINEERS  
13014 S.W. 120 Street  
MIAMI, FLORIDA 33185  
CERTIFICATE #: 8803  
[Signature]  
6/10/14  
TEL: (305) 235-4300  
FARROKH RASEKHI, P.E.  
FL REG. #36001

MANUFACTURER:  
**Gamma**  
U.S.A.  
6130, BOUL. STE-ANNE  
L'ANGE GARDIEN (QUÉBEC)  
G0A 2K0  
Phone: (418) 822-1448 Fax: (418) 822-1533  
Web site: www.gammaindustries.ca  
E-mail: info@gamma-online.com

TITLE:  
TEST # 82  
ALDORA  
48" x 120"  
+140/-160 PSF  
SMALL IMPACT  
ELEVATION

SCALE: 7/16" = 1'-0"	DRAWN BY: D. LABBÉ
DATE: 04/14/2006	DRAWING NO. T-82
	SHEET NO. 1 of 9



SECURED FIXED PANEL  
(SEE NOTE A ON COVER PAGE)

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 13-0724.06  
Expiration Date 10/16/18  
By *Isling J. Charles*  
Miami Dade Product Control

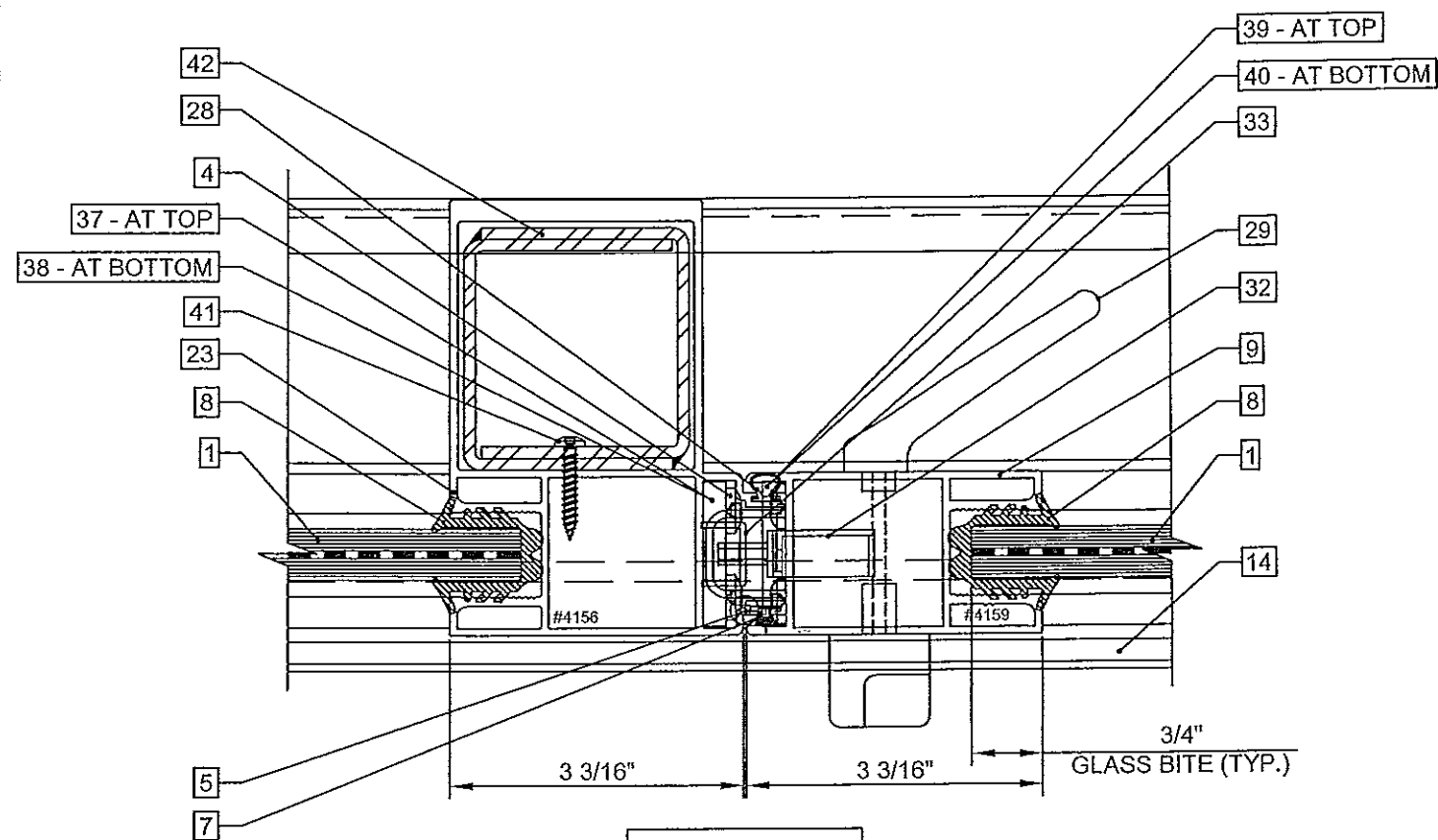
REVISIONS:	BY:
R1 05/05/2006	D.L.
R5 08/29/2008	M.P.
R6 09/18/2008	M.P.
R7 05/21/2014	M.A.

STRUCTURAL DESIGN INC.  
CONSULTING STRUCTURAL ENGINEERS  
13014 S.W. 120 Street  
MIAMI, FLORIDA 33186  
CERTIFICATE #: 8803  
*Farrokh Rasekhi*  
6/10/14  
TEL: (305) 235-4300 FARROKH RASEKHI, P.E.  
FL. REG. #38001

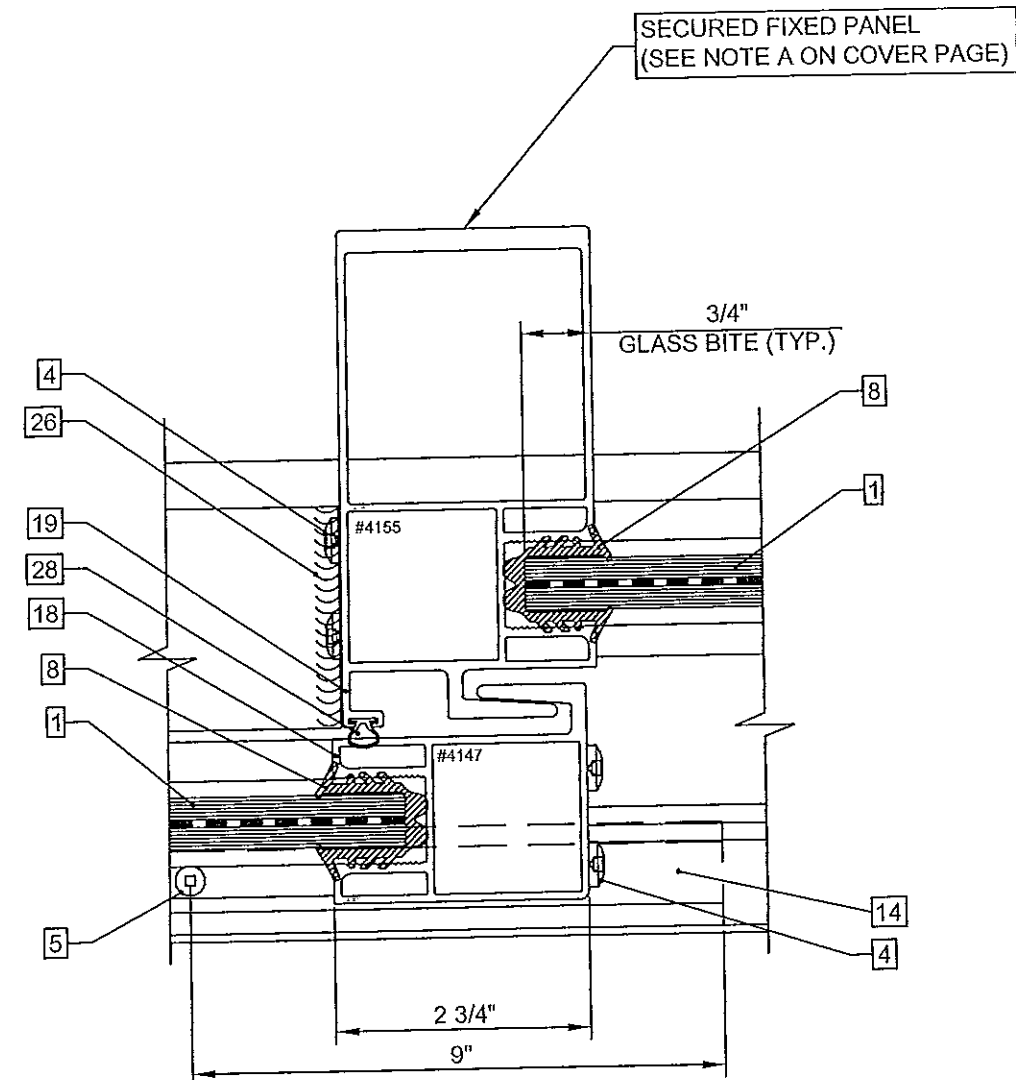
MANUFACTURER:  
**Gamma**  
U.S.A.  
6130, BOUL. STE-ANNE  
L'ANGE GARDIEN (QUÉBEC)  
G0A 2K0  
Phone: (418) 822-1448 Fax: (418) 822-1533  
Web site: www.gammaindustries.ca  
E-mail: info@gamma-online.com

TITLE:  
TEST # 82  
ALDORA  
48" x 120"  
+140/-160 PSF  
SMALL IMPACT  
DETAILS 101 & 102

SCALE: 6" = 1'-0"	DRAWN BY: D. LABBÉ
DATE: 04/14/2006	DRAWING NO. T-82
	SHEET NO. 2 OF 9



**OUTSIDE**  
**detail 103**  
ASTRAGAL / LOCK STILE



**OUTSIDE**  
**detail 104**

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 13-0724-06  
Expiration Date 10/16/18  
By 134-91.16-06  
Miami Dade Product Control

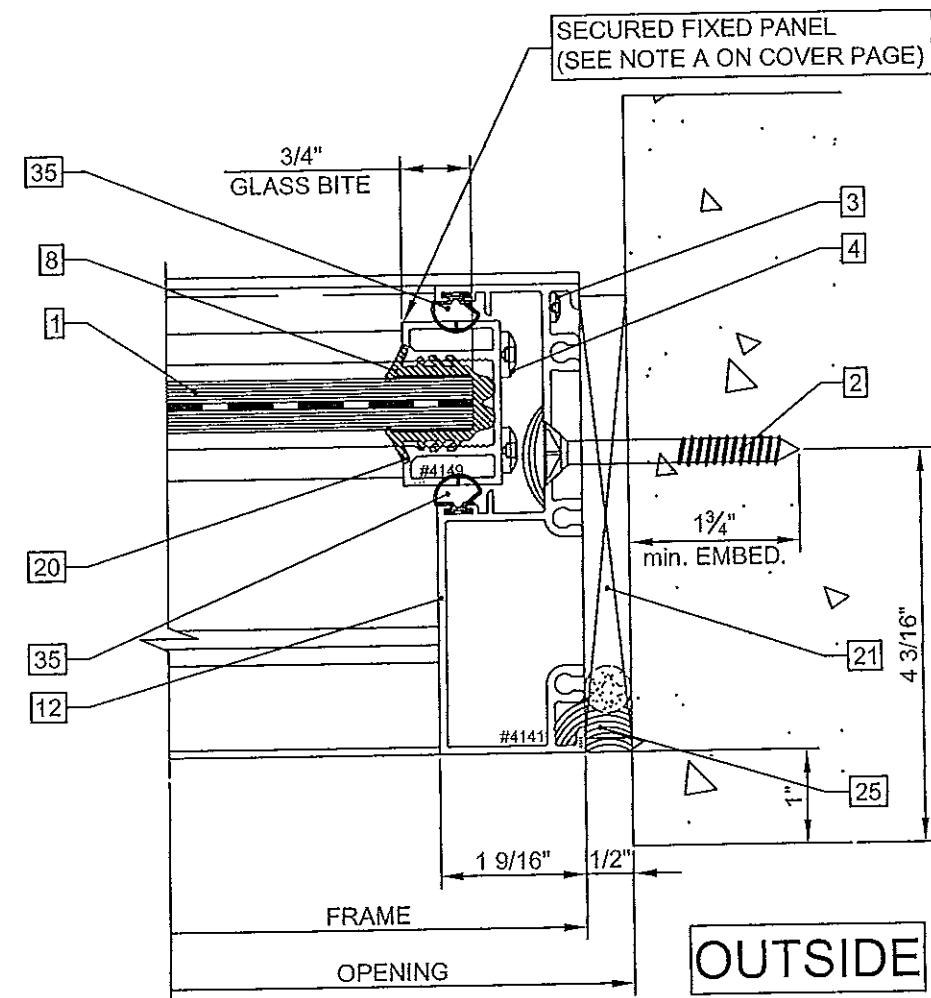
REVISIONS:	BY:
R1 05/05/2006	D.L.
R5 08/29/2008	M.P.
R6 09/18/2008	M.P.
R7 05/21/2014	M.A.

STRUCTURAL DESIGN INC.  
CONSULTING STRUCTURAL ENGINEERS  
13014 S.W. 120 Street  
MIAMI, FLORIDA 33186  
CERTIFICATE #: 6825  
6/10/14  
TEL: (305) 235-4300  
FARROKH RASEKHI, P.E.  
FL REG. #38001

MANUFACTURER:  
**Gamma**  
U.S.A.  
6130, BOUL. STE-ANNE  
L'ANGE GARDIEN (QUÉBEC)  
G0A 2K0  
Phone: (418) 822-1448 Fax: (418) 822-1533  
Web site: www.gammaindustries.ca  
E-mail: info@gamma-online.com

TITLE:  
TEST # 82  
ALDORA  
48" x 120"  
+140/-160 PSF  
SMALL IMPACT  
DETAILS 103 & 104

SCALE: 6" = 1'-0"	DRAWN BY: D. LABBÉ
DATE: 04/14/2006	DRAWING NO. T-82
	SHEET NO. 3 OF 9



detail 105

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 13-0724-06  
Expiration Date 12/16/18  
By J. Chavira  
Miami Dade Product Control

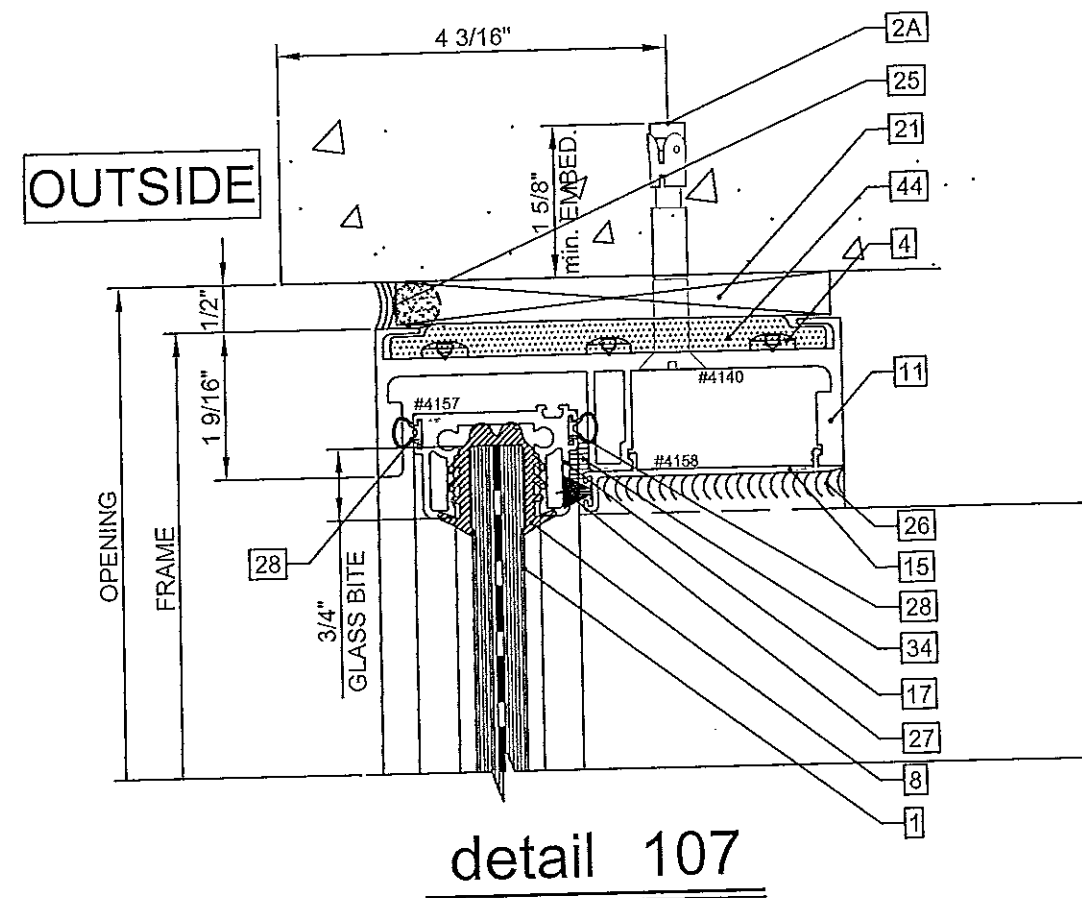
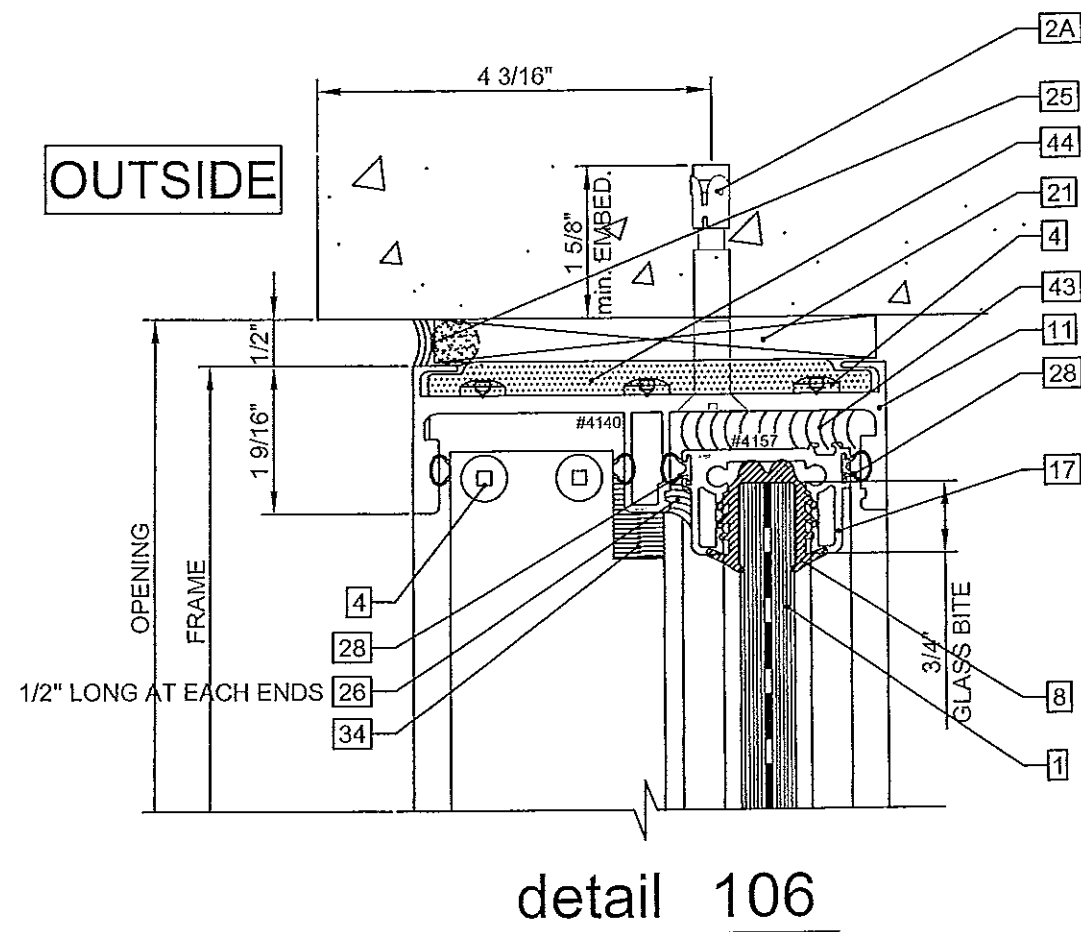
REVISIONS:	BY:
R1 05/05/2006	D.L.
R5 08/29/2008	M.P.
R6 09/18/2008	M.P.
R7 05/21/2014	M.A.

STRUCTURAL DESIGN INC.  
CONSULTING STRUCTURAL ENGINEERS  
13014 S.W. 120 Street  
MIAMI, FLORIDA 33186  
CERTIFICATE #: 8803  
*Farrokh Rasekhi*  
6/10/14  
TEL: (305) 235-4300 FARROKH RASEKHI, P.E.  
FL. REG. #33001

MANUFACTURER:  
**Gamma**  
U.S.A.  
6130, BOUL. STE-ANNE  
L'ANGE GARDIEN (QUÉBEC)  
G0A 2K0  
Phone: (418) 822-1448 Fax: (418) 822-1533  
Web site: www.gammaindustries.ca  
E-mail: info@gamma-online.com

TITLE:  
TEST # 82  
ALDORA  
48" x 120"  
+140/-160 PSF  
SMALL IMPACT  
DETAIL 105

SCALE: 6" = 1'-0"	DRAWN BY: D. LABBÉ
DATE: 04/14/2006	DRAWING NO. T-82
	SHEET NO. 4 OF 9



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 13-0724.06  
Expiration Date 7/16/18  
By Isaac J. Chander  
Miami Date Product Control

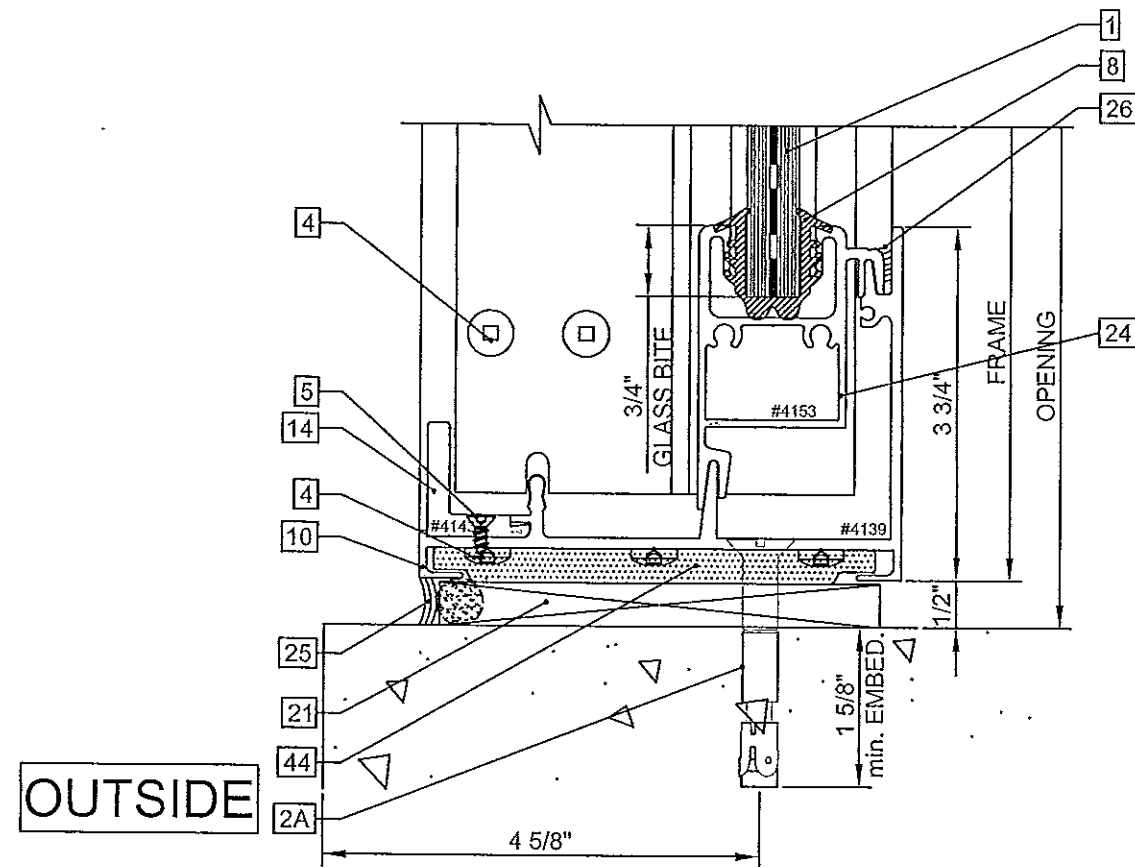
REVISIONS:	BY:
R1 05/05/2006	D.L.
R5 08/29/2008	M.P.
R6 09/18/2008	M.P.
R7 05/21/2014	M.A.

STRUCTURAL DESIGN INC.  
CONSULTING STRUCTURAL ENGINEERS  
13014 S.W. 120 Street  
MIAMI, FLORIDA 33186  
CERTIFICATE #: 8803  
6/10/14  
TEL: (305) 235-4300  
FARROKH RASEKHI, P.E.  
FL. REG. #38001

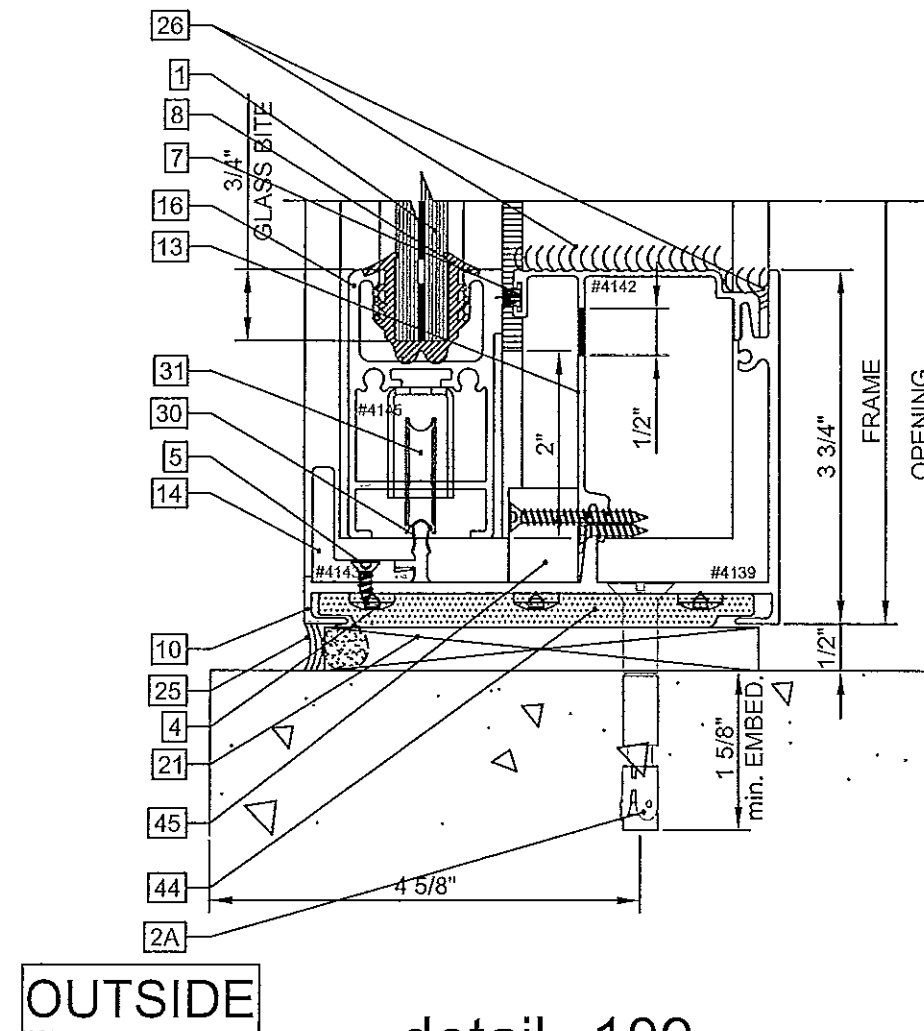
MANUFACTURER:  
**Gamma**  
U.S.A.  
6130, BOUL. STE-ANNE  
L'ANGE GARDIEN (QUÉBEC)  
G0A 2K0  
Phone: (418) 822-1448 Fax: (418) 822-1533  
Web site: www.gammaindustries.ca  
E-mail: info@gamma-online.com

TITLE:  
TEST # 82  
ALDORA  
48" x 120"  
+140/-160 PSF  
SMALL IMPACT  
DETAILS 106 & 107

SCALE: 6" = 1'-0"	DRAWN BY: D. LABBÉ
DATE: 04/14/2006	DRAWING NO. T-82
	SHEET NO. 5 of 9



detail 108



detail 109

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 13-0724-06  
Expiration Date 10/16/18  
By Isaac J. Gamba  
Miami Dade Product Control

REVISIONS:	BY:
R1 05/05/2006	D.L.
R4 05/25/2006	D.L.
R5 08/29/2008	M.P.
R6 09/18/2008	M.P.
R7 05/21/2014	M.A.

**STRUCTURAL DESIGN INC.**  
CONSULTING STRUCTURAL ENGINEERS  
13014 S.W. 120 Street  
MIAMI, FLORIDA 33186  
CERTIFICATE #: 8803  
*Farrokh Rasekhi*  
6/10/14  
TEL: (305) 235-4300 FARROKH RASEKHI, P.E.  
FL. REG. #38001

MANUFACTURER:  
**Gamma**  
U.S.A.  
6130, BOUL. STE-ANNE  
L'ANGE GARDIEN (QUÉBEC)  
G0A 2K0  
Phone: (418) 822-1448 Fax: (418) 822-1533  
Web site: www.gammaindustries.ca  
E-mail: info@gamma-online.com

TITLE:  
**TEST # 82**  
**ALDORA**  
**48" x 120"**  
**+140/-160 PSF**  
**SMALL IMPACT**  
**DETAILS 108 & 109**

SCALE: 6" = 1'-0"	DRAWN BY: D. LABBÉ	
DATE: 04/14/2006	DRAWING NO. T-82	SHEET NO. 6 OF 9



**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 13-0724-06  
 Expiration Date 10/16/18  
 By *Isabel L. Chant*  
 Miami Dade Product Control

REVISIONS:	BY:
R1 05/05/2006	D.L.
R5 08/29/2008	M.P.
R6 09/18/2008	M.P.
R7 05/21/2014	M.A.

**STRUCTURAL DESIGN INC.**  
 CONSULTING STRUCTURAL ENGINEERS  
 13014 S.W. 120 Street  
 MIAMI, FLORIDA 33186  
 CERTIFICATE # 8803  
*Farrokh Rasekhi*  
 6/10/14  
 TEL: (305) 235-4300 FARROKH RASEKHI, P.E.  
 FL. REG. #35001

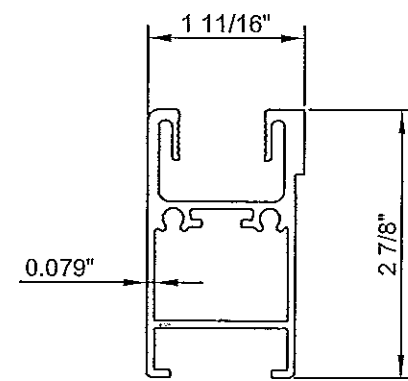
**MANUFACTURER:**  
**Gamma**  
 U.S.A.  
 6130, BOUL. STE-ANNE  
 L'ANGE GARDIEN (QUÉBEC)  
 G0A 2K0  
 Phone: (418) 822-1448 Fax: (418) 822-1533  
 Web site: www.gammaindustries.ca  
 E-mail: info@gamma-online.com

**TITLE:**  
 TEST # 82  
 ALDORA  
 48" x 120"  
 +140/-160 PSF  
 SMALL IMPACT  
 GAMMA'S EXTRUSIONS

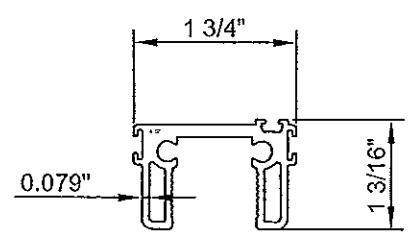
SCALE: 6" = 1'-0"	DRAWN BY: D. LABBÉ
DATE: 04/14/2006	DRAWING NO. T-82
	SHEET NO. 7 of 9



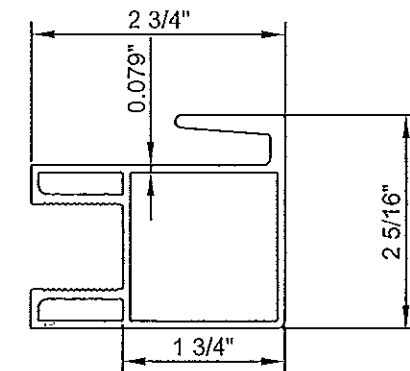
#3109 THERMOPLASTIC ELASTOMERE RUBBER



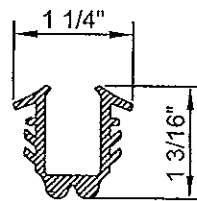
#4145 ALUMINUM MOVING PANEL SILL



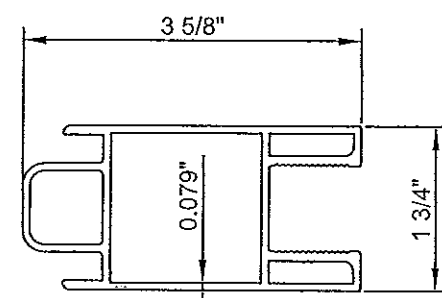
#4157 ALUMINUM PANEL HEAD



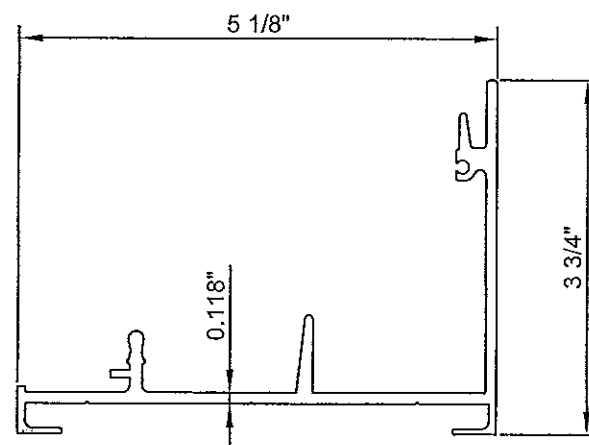
#4147 ALUMINUM MOVING PANEL JAMB AT MEETING RAIL



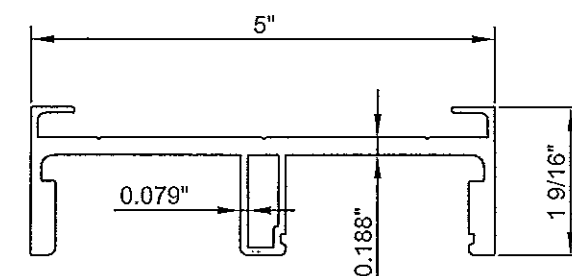
#3066 GLAZING GASKET



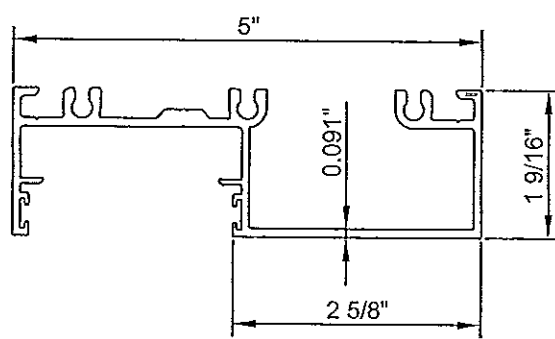
#4159 ALUMINUM MOVING PANEL JAMB AT ASTRAGAL (reinforced)



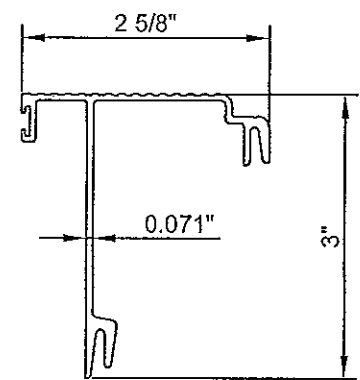
#4139 ALUMINUM FRAME SILL



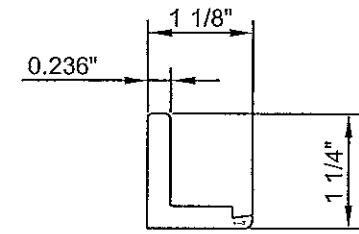
#4140 ALUMINUM FRAME HEAD



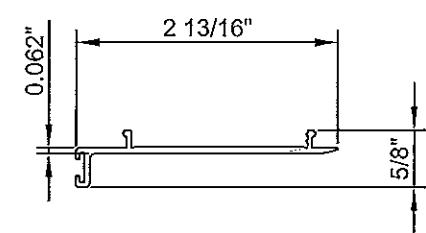
#4141 ALUMINUM FRAME JAMB



#4142 ALUMINUM THRESHOLD FILLING TRACK



#4143 ALUMINUM STOPPER (RETAINER)



#4158 ALUMINUM SNAP-ON CAP



SANTOPRENE THERMOPLASTIC RUBBER #SE-237



STAINLESS STEEL COVER #502 By Unique

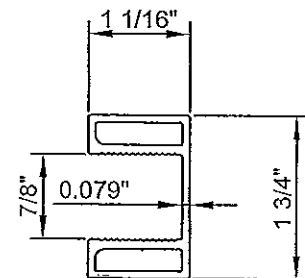


MOHAIR (SCHLEGEL #FS 7532-270)

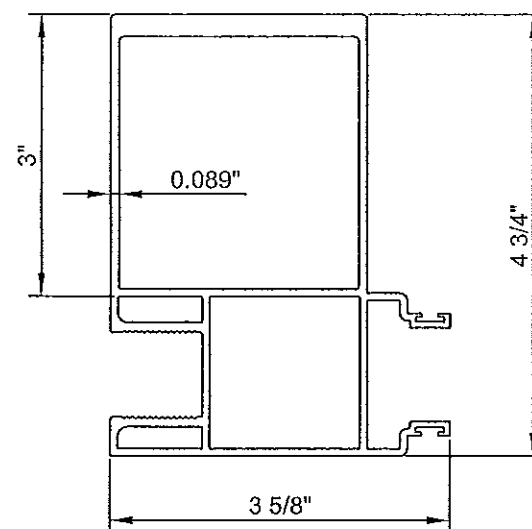


MOHAIR (SCHLEGEL #FS 7550-270)

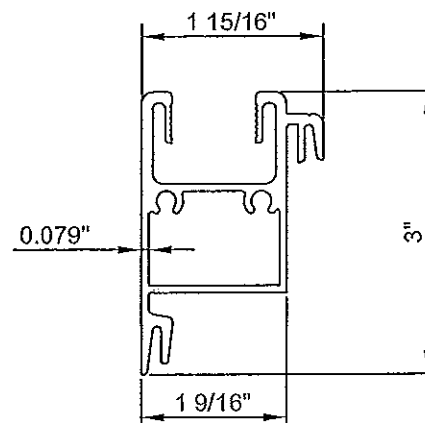
FOR MORE SPECIFIC DIMENSIONS PLEASE REFER TO THE SPECIFICATION SHEET FOR EACH EXTRUSIONS



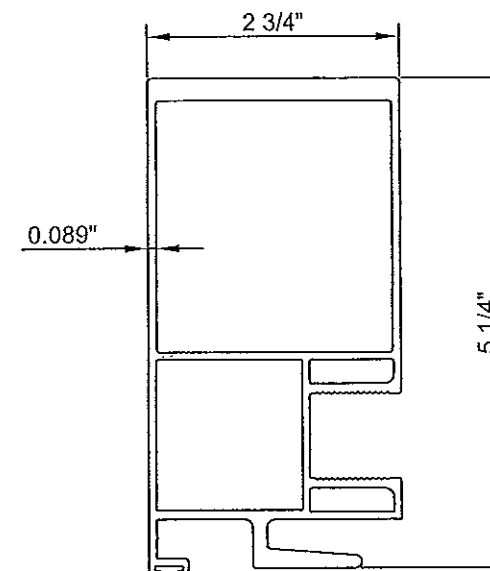
#4149 ALUMINUM FIXED PANEL JAMB



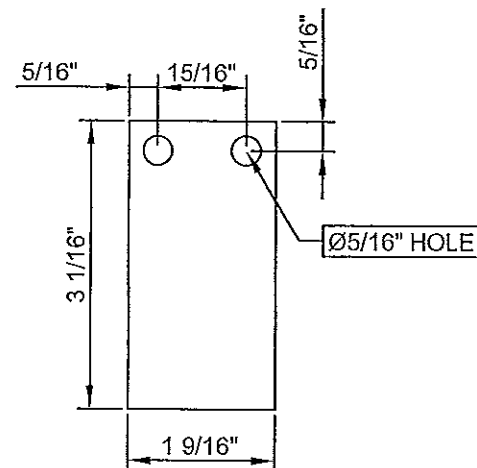
#4156 ALUMINUM MOVING PANEL AT JAMB ASTRAGAL



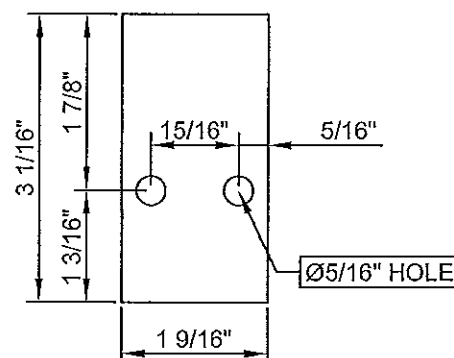
#4153 ALUMINUM FIXED PANEL SILL



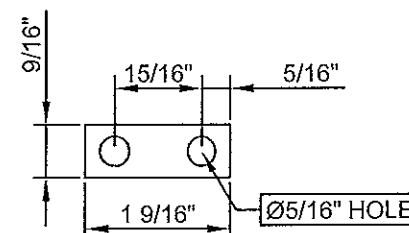
#4155 ALUMINUM FIXED PANEL JAMB AT MEETING RAIL



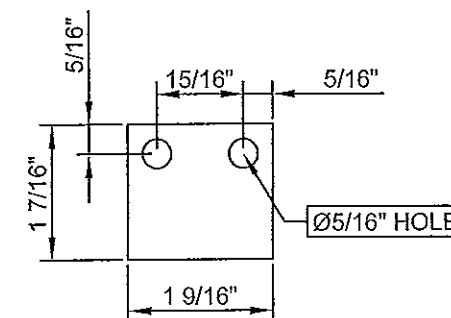
[37] ALUMINUM REINFORCEMENT PLATE AT TOP OF ASTRAGALE 1/4" THICK



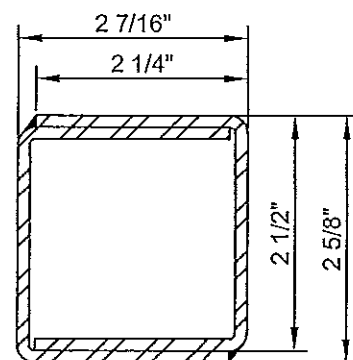
[38] ALUMINUM REINFORCEMENT PLATE AT BOTTOM OF ASTRAGALE 1/4" THICK



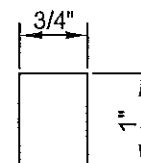
[39] ALUMINUM REINFORCEMENT PLATE AT TOP OF ASTRAGALE 1/4" THICK (HANDLE SIDE)



[40] ALUMINUM REINFORCEMENT PLATE AT BOTTOM OF ASTRAGALE 1/4" THICK (HANDLE SIDE)



[42] (2x) GALV. REINFORCEMENT 2 1/4"x2 1/2"x2 1/4"x1/8" THICK WELDED TOGETHER Fy = 36 KSI



[45] ALUMINUM BLOCK 3/4"x1"x12" LONG (AT ASTRAGAL)

FOR MORE SPECIFIC DIMENSIONS PLEASE REFER TO THE SPECIFICATION SHEET FOR EACH EXTRUSIONS

**PRODUCT REVISED**  
As complying with the Florida Building Code  
Acceptance No. 13-0724-06  
Expiration Date 10/16/13  
By 196 ag 1.1 (hand)  
Miami Dade Product Control

REVISIONS:	BY:
R1 05/05/2006	D.L.
R5 08/29/2008	M.P.
R6 09/18/2008	M.P.
R7 05/21/2014	M.A.

**STRUCTURAL DESIGN INC.**  
CONSULTING STRUCTURAL ENGINEERS  
13014 S.W. 120 Street  
MIAMI, FLORIDA 33186  
CERTIFICATE #: 8803  
6/10/14  
TEL: (305) 235-4300 FARROKH RASEKHI, P.E.  
FL. REG. #38001

MANUFACTURER:  
**Gamma**  
U.S.A.  
6130, BOUL. STE-ANNE  
L'ANGE GARDIEN (QUÉBEC)  
G0A 2K0  
Phone: (418) 822-1448 Fax: (418) 822-1533  
Web site: www.gammaindustries.ca  
E-mail: info@gamma-online.com

TITLE:  
TEST # 82  
ALDORA  
48" x 120"  
+140/-160 PSF  
SMALL IMPACT  
GAMMA'S EXTRUSIONS

SCALE: 6" = 1'-0"	DRAWN BY: D. LABBÉ
DATE: 04/14/2006	DRAWING NO. T-82
	SHEET NO. 8 OF 9

ITEM	PART #	DESCRIPTION
1	-	3/16" LAMINATED GLASS:
		- 1/4" CLEAR TEMPERED GLASS
		- 0.060 PVB (SOLUTIA)
		- 1/4" CLEAR TEMPERED GLASS
2	-	Ø5/16" ELCO - TAPCON SCREW - 1 3/4" min. EMBEDMENT
2A	-	Ø3/8" FH HILTI KWIK BOLT 3 - 1 5/8" min. EMBEDMENT
3	-	#8 RH SS SCREW x 2" LONG
4	-	1/4"-20 PH SS SCREW x 1" LONG
5	-	#8 FH SS SCREW x 1/2" LONG (AT 9", 29 7/16", 49 15/16", 70 3/8" and 90 7/8")
7	-	CONTINUOUS MOHAIR (SCHLEGEL # FS7532-270)
8	#3066	GLAZING GASKET
9	#4159	ALUMINUM MOVING PANEL JAMB AT ASTRAGAL (REINFORCED)
10	#4139	ALUMINUM FRAME SILL
11	#4140	ALUMINUM FRAME HEAD
12	#4141	ALUMINUM FRAME JAMB
13	#4142	ALUMINUM THRESHOLD FILLING TRACK
14	#4143	ALUMINUM STOPPER - 99 7/8" LONG
15	#4158	ALUMINUM SNAP-ON CAP
16	#4145	ALUMINUM MOVING PANEL SILL
17	#4157	ALUMINUM PANEL HEAD
18	#4147	ALUMINUM MOVING PANEL JAMB AT MEETING RAIL
19	#4155	ALUMINUM FIXED PANEL JAMB AT MEETING RAIL
20	#4149	ALUMINUM FIXED PANEL JAMB
21	-	LOAD BEARING SHIM (TO BE SECURE PROPELY AND REVISED BY BUILDING OFFICIAL )
23	#4156	ALUMINUM MOVING PANEL AT JAMB ASTRAGAL
24	#4153	ALUMINUM FIXED PANEL SILL
25	-	BACKER ROD & SEALANT - SPECTREM 2 or SILPRUF SCS 2000
26	-	SEALANT - SPECTREM 2 or SILPRUF SCS 2000
27	-	CONTINUOUS MOHAIR (SCHLEGEL #FS7550-270)
28	-	SANTOPRENE THERMOPLASTIC RUBBER #SE-237 (CUT RUBBER 2" AT BOTTOM)
29	-	ALUMINUM HANDLE SET TRUTH #40.62.27.114
30	-	STAINLESS STEEL COVER #502 By Unique
31	-	ROLLER (TRUTH # 39.13.00.202)
32	-	MORTISE (TRUTH # 16139)
33	-	KEEPER (TRUTH # 32429)
34	-	MOHAIR PAD - 1" x 2 1/2" - AT TOP OF FIXED and OPERABLE PANELS
35	#3109	THERMOPLASTIC ELASTOMERE RUBBER
37	-	ALUMINUM REINFORCEMENT PLATE AT TOP OF ASTRAGALE - 1/4" THICK
38	-	ALUMINUM REINFORCEMENT PLATE AT BOTTOM OF ASTRAGALE - 1/4" THICK
39	-	ALUMINUM REINFORCEMENT PLATE AT TOP OF ASTRAGALE - 1/4" THICK (HANDLE SIDE)

ITEM	PART #	DESCRIPTION
40	-	ALUMINUM REINFORCEMENT PLATE AT BOTTOM OF ASTRAGALE - 1/4" THICK (HANDLE SIDE)
41	-	#8 RH SS SCREW x 1" LONG - ONE (1) AT BOTTOM OF REINFORCEMENT
42	-	(2x) STEEL GALV. REINF. - 2 1/4"x2 1/2"x2 1/4"x1/8" THICK WELDED TOGET HER - 113 3/8" LONG
		OVERALL DIMENSION: 2 5/8" x 2 7/16" x 113 3/8" LONG
43	-	BACKER ROD AND SEALANT - SPECTREM 2 or SILPRUF SCS 2000 AT FIXED PANEL'S CORNERS (AT TOP).
44	-	LOAD BEARING SHIM (#3112)
45	-	ALUMINUM BLOCK - 3/4"x1"x12" LONG - ATTACHED WITH THREE (3) #8 RH SS SCREW - 1 1/2" LONG

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 13-0724-06  
Expiration Date OCT 14, 2018  
By Khag L. Chan  
Miami Dade Product Control

REVISIONS:	BY:
R1 05/05/2006	D.L.
R3 05/09/2006	D.L.
R4 05/25/2006	D.L.
R5 08/29/2008	M.P.
R6 09/18/2008	M.P.
R7 05/21/2014	M.A.

**STRUCTURAL DESIGN INC.**  
CONSULTING STRUCTURAL ENGINEERS  
13014 S.W. 120 Street  
MIAMI, FLORIDA 33186  
CERTIFICATE #: 8803  
6/10/14  
TEL: (305) 235-4300 FARROKH RASEKHI, P.E.  
FL. REG. #38001

**MANUFACTURER:**  
  
U.S.A.  
8130, BOUL. STE-ANNE  
L'ANGE GARDIEN (QUÉBEC)  
G0A 2K0  
Phone: (418) 822-1448 Fax: (418) 822-1533  
Web site: www.gammaindustries.ca  
E-mail: info@gamma-online.com

TITLE:  
TEST # 82  
ALDORA  
48" x 120"  
+140/-160 PSF  
SMALL IMPACT  
BILL OF MATERIAL

SCALE: N.T.S.	DRAWN BY: D. LABBÉ	
DATE: 04/14/2006	DRAWING NO. T-82	SHEET NO. 9 OF 9